

Glass founding process - using smoke gases to heat stock and broken glass in bunkers and regulating gas flow to stabilise vulcanising zone position in furnace

Brevet Basic : SU1567527

Classification internationale des brevets : C03B-005/00

• Résumé :

SU1567527 A Smoke gases from the regenerators of glass-making furnace (3) pass along pipe (17) to stock bunkers (16), where they heat the mixt. of stock and broken glass to 150-350 deg. C. After heat-exchange, the gases pass along pipe (18) to the smoke stack. The heating temp. of the mixture is measured indirectly by measuring the temp. of gases leaving the bunkers. Video-signals from television cameras (1,2) are measured in measuring units (4,5), passing signals proportional to position of the founding zone boundary in the furnace to correcting instruments (6,7), where they are compared to signals from controllers (8,9). Imbalance signals pass to regulation units (11), where signals from instruments (6,7) and temp. sensors (15) are compared to the signal from controller (12). Imbalance signals from units (11) act through starters (13) to move the slide valves of control mechanisms (16) and control the gas flows to bunkers (16) and stabilise the position of the founding zone in the furnace.

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